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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/880,672	06/13/2001	Hyun-Dong Lee	678-659 (P9670)	5097

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EXAMINER

KNOWLIN, THJUAN P

ART UNIT	PAPER NUMBER
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2614

DATE MAILED: 08/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/880,672	Applicant(s) LEE, HYUN-DONG	
	Examiner Thjuan P. Knowlin	Art Unit 2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 May 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on May 11, 2006 has been entered. No claims have been amended. No claims have been cancelled. No claims have been added. Claims 1-3 are still pending in this application, with claim 1 being independent.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Bank et al (US Patent Application Publication No.: US 2003/0059069 A1)

3. In regards to claim 1, Bank discloses a panel-type speaker (e.g., transducer, actuator, exciter) (See Fig. 2 and transducer 86) mounting structure (See Fig. 1 - Fig. 2 and paragraph [0005]) comprising: a liquid crystal display (LCD) window (See Fig. 2 and display window 66) having a first surface exposed on a top end (See Fig. 1 - Fig. 2 and front part 62) and of an upper casing frame of a main body and a second surface facing an interior (See Fig. 1 - Fig. 2 and back part 60) or the main body; and an LCD

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module (See Fig. 2 and display/LCD display 108) disposed under the LCD window with a gap between the LCD module and the LCD window within the main body (See paragraph [0066 - 0067]), the LCD module having a polarizing plate (e.g., piezoelectric material/plate) having an upper surface (See Fig. 2, bimorph beam 90 and Fig. 5, piezoelectric beam 43) facing the second surface of the LCD window and a lower surface (See Fig. 2, bimorph beam 88 and Fig. 5, piezoelectric beam 51) opposite the upper surface, the polarizing plate being divided into a first portion (e.g., bimorph beam 90 and piezoelectric beam 43) located adjacent to the LCD window and a second portion (e.g., bimorph beam 88 and piezoelectric beam 51) extended from the first portion, for mounting a panel-type speaker to the lower surface of the second portion of the polarizing plate (See Fig. 2, Fig. 5, paragraph [0054 - 0055], paragraph [0059], and paragraph [0061]).

4. In regards to claim 2, Bank discloses the panel-type speaker mounting structure, wherein the second portion (See Fig. 2, bimorph beam 88 and Fig. 5, bimorph beam 51) of the plate is extended in a predetermined direction below the LCD window away from a top portion of a device (See Fig. 2, Fig. 5, paragraph [0054 - 0055], and paragraph [0061]).

5. In regards to claim 3, Azima discloses the panel-type speaker mounting structure, wherein the polarizing plate is made from a polarizing material (See paragraph [0055]).

Response to Arguments

6. Applicant's arguments with respect to claims 1-3 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Azima et al (US Patent Application Publication No.: 2001/0026625 A1) teach a resonant panel-form loudspeaker.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thjuan P. Knowlin whose telephone number is (571) 272-7486. The examiner can normally be reached on Mon-Fri 8:30-5:00pm.

9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on (571) 272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Thjuan P. Knowlin



WING CHAN
SUPERVISORY PATENT EXAMINER